|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | | 13CS1103 | - | OBJECT ORIENTED ANALYSIS AND DESIGN | | | | | | | | |
|  |  | |  | | | | |
| Hours / Week | : | 4 | |  | Sessional Marks | : | 40 |
| Credits | : | 4 | |  | End Examination Marks | : | 60 |

|  |
| --- |
| **UNIT - I** |
| **FUNDAMENTALS:** An overview of object oriented systems development – Object basics – Object  Oriented systems development life cycle. |
|  |
| **UNIT – II** |
| **OBJECT ORIENTED METHODOLOGIES:** Rum Baugh methodology − Booch methodology − Jacobson methodology − Patterns − Frameworks − Unified approach − Unified modeling language − Use case diagram − Class diagram − Interaction diagram − Package diagram − State diagram − Activity diagram – Implementation diagram. |
|  |
| **UNIT – III** |
| **OBJECT ORIENTED ANALYSIS:** Identifying use cases – Object analysis – Classification – Identifying object relationships – Attributes and methods. |
|  |
| **UNIT – IV** |
| **OBJECT ORIENTED DESIGN:** Design axioms – Designing classes – Access layer – Object storage – Object interoperability. |
|  |
| **UNIT – V** |
| **SOFTWARE QUALITY AND USABILITY:** Designing interface objects – Software quality assurance – System usability – Measuring user satisfaction. |
|  |
|  |
| TEXT BOOKS |
| 1. Ali Bahrami, “Object Oriented Systems Development”, Tata McGraw - Hill, 1999. 2. Martin Fowler, “UML Distilled”, 2nd Edition, Prentice Hall of India / Pearson Education, 2002. |
|  |
| REFERENCE BOOKS |
| 1. Stephen R. Schach, “Introduction to Object Oriented Analysis and Design”, Tata McGraw - Hill, 2003. 2. James Rumbaugh, Ivar Jacobson and Grady Booch “The Unified Modeling Language Reference Manual”, Addison Wesley, 1999. |